

### MLFB-Ordering data

6SL3210-5BE21-5UV0



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

| Rated data  | General tech. specifications   |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
|---|--|---------------------------|-----------------------------|---------------------------|---|-------------------|---|------------------------|--------------------|------------------------------|--------------------|-------------------|----------------------------|---------------------------|----------------------------|--------|-----------------|----------|------------------|--------------|--|---------|--------------|-----------------------|------------------|-----------|-------------------------------|---------|--------------------------------|----------------|------|
| <b>Input</b> <table> <tr> <td>Number of phases</td><td>3 AC</td></tr> <tr> <td>Line voltage</td><td>380 ... 480 V -15 % +10 %</td></tr> <tr> <td>Line frequency</td><td>47 ... 63 Hz</td></tr> </table>   | Number of phases   | 3 AC                      | Line voltage                | 380 ... 480 V -15 % +10 % | Line frequency                          | 47 ... 63 Hz      | <table> <tr> <td>Power factor <math>\lambda</math></td><td>0.72</td></tr> <tr> <td>Offset factor <math>\cos \varphi</math></td><td>0.95</td></tr> <tr> <td>Efficiency <math>\eta</math></td><td>0.98</td></tr> <tr> <td>Filter class (integrated)</td><td>Unfiltered</td></tr> </table> | Power factor $\lambda$ | 0.72               | Offset factor $\cos \varphi$ | 0.95               | Efficiency $\eta$ | 0.98                       | Filter class (integrated) | Unfiltered                 |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Number of phases  | 3 AC   |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Line voltage  | 380 ... 480 V -15 % +10 %  |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Line frequency  | 47 ... 63 Hz   |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Power factor $\lambda$  | 0.72   |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Offset factor $\cos \varphi$  | 0.95   |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Efficiency $\eta$   | 0.98   |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Filter class (integrated)   | Unfiltered   |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| <b>Output</b> <table> <tr> <td>Number of phases</td><td>3 AC</td></tr> <tr> <td>Rated voltage</td><td>400 V</td></tr> <tr> <td>Rated power (HO)</td><td>1.50 kW / 2.00 hp</td></tr> <tr> <td>Rated power (LO)</td><td>1.50 kW / 2.00 hp</td></tr> <tr> <td>Rated current (HO)</td><td>4.10 A</td></tr> <tr> <td>Rated current (LO)</td><td>4.10 A</td></tr> <tr> <td>Rated current (HO) at 480V</td><td>4.10 A</td></tr> <tr> <td>Rated current (LO) at 480V</td><td>4.10 A</td></tr> <tr> <td>Pulse frequency</td><td>4.00 kHz</td></tr> <tr> <td>Output frequency</td><td>0 ... 550 Hz</td></tr> </table> | Number of phases   | 3 AC                      | Rated voltage               | 400 V                     | Rated power (HO)                        | 1.50 kW / 2.00 hp | Rated power (LO)  | 1.50 kW / 2.00 hp      | Rated current (HO) | 4.10 A                       | Rated current (LO) | 4.10 A            | Rated current (HO) at 480V | 4.10 A                    | Rated current (LO) at 480V | 4.10 A | Pulse frequency | 4.00 kHz | Output frequency | 0 ... 550 Hz | <b>Ambient conditions</b> <table> <tr> <td>Cooling</td><td>External fan</td></tr> <tr> <td>Installation altitude</td><td>1000 m (3281 ft)</td></tr> </table> <b>Ambient temperature</b> <table> <tr> <td>Operation</td><td>-10 ... 60 °C (14 ... 140 °F)</td></tr> <tr> <td>Storage</td><td>-40 ... 70 °C (-40 ... 158 °F)</td></tr> </table> <b>Relative humidity</b> <table> <tr> <td>Max. operation</td><td>95 %</td></tr> </table> | Cooling | External fan | Installation altitude | 1000 m (3281 ft) | Operation | -10 ... 60 °C (14 ... 140 °F) | Storage | -40 ... 70 °C (-40 ... 158 °F) | Max. operation | 95 % |
| Number of phases  | 3 AC   |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Rated voltage   | 400 V  |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Rated power (HO)  | 1.50 kW / 2.00 hp  |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Rated power (LO)  | 1.50 kW / 2.00 hp  |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Rated current (HO)  | 4.10 A   |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Rated current (LO)  | 4.10 A   |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Rated current (HO) at 480V  | 4.10 A   |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Rated current (LO) at 480V  | 4.10 A   |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Pulse frequency   | 4.00 kHz   |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Output frequency  | 0 ... 550 Hz   |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Cooling   | External fan   |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Installation altitude   | 1000 m (3281 ft)   |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Operation   | -10 ... 60 °C (14 ... 140 °F)  |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Storage   | -40 ... 70 °C (-40 ... 158 °F)   |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Max. operation  | 95 %   |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
|   | <b>Communication</b> <table> <tr> <td>Communication</td><td>USS, Modbus RTU</td></tr> </table>   | Communication             | USS, Modbus RTU             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Communication   | USS, Modbus RTU  |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
|   | <b>Standards</b> <table> <tr> <td>Compliance with standards</td><td>CE, cULus, C-Tick (RCM), KC</td></tr> <tr> <td>CE marking</td><td>EN 61800-5-1 /EN 60204-1 and EN 61800-3</td></tr> </table> | Compliance with standards | CE, cULus, C-Tick (RCM), KC | CE marking                | EN 61800-5-1 /EN 60204-1 and EN 61800-3 |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| Compliance with standards   | CE, cULus, C-Tick (RCM), KC  |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |
| CE marking  | EN 61800-5-1 /EN 60204-1 and EN 61800-3  |                           |                             |                           |   |                   |   |                        |                    |                              |                    |                   |                            |                           |                            |        |                 |          |                  |              |  |         |              |                       |                  |           |                               |         |                                |                |      |

### Overload capability

#### Low Overload (LO)

110 % rated output current for 60 s, cycle time 300 s

#### High Overload (HO)

150 % rated output current for 60 s, cycle time 300 s

# SIEMENS

## Data sheet for SINAMICS V20

MLFB-Ordering data                      6SL3210-5BE21-5UV0



Figure similar

| Mechanical data      |                                       | Connections             |               |
|----------------------|---------------------------------------|-------------------------|---------------|
| Mounting position    | Wall mounting / side-by-side mounting | Max. motor cable length |               |
| Degree of protection | IP20 / UL open type                   | Shielded                | 10 m (33 ft)  |
| Size                 | FSA                                   | Unshielded              | 50 m (164 ft) |
| Net weight           | 1.00 kg ( 2.20 lb )                   |                         |               |
| Width                | 90.0 mm ( 3.54 in )                   |                         |               |
| Height               | 166.0 mm ( 6.54 in )                  |                         |               |
| Depth                | 145.5 mm ( 5.73 in )                  |                         |               |

| Inputs / outputs                   |   |
|------------------------------------|---|
| Standard digital inputs            |   |
| Number                             | 4   |
| Digital outputs                    |   |
| Number as relay changeover contact | 1   |
| Number as transistor               | 1   |
| Analog inputs                      |   |
| Number                             | 2 (Can be used as additional digital input) |
| Analog outputs                     |   |
| Number                             | 1   |